



SEQUENCE LISTING

<110> Novartis AG

<120> Modified viral surface proteins for binding to extracellular matrix components

<130> 4-30246a/GTI

<140> US 09/904,923

<141> 2001-07-13

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 229

<212> PRT

<213> Moloney murine leukemia virus

<400> 1

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Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His
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Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu
35 40 45

Ala His His Gly Pro Ser Tyr Trp Gly Leu Glu Tyr Gln Ser Pro Phe
50 55 60

Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly
65 70 75 80

Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys
 85 90 95

Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser
 100 105 110

Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser
 115 120 125

Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys
 130 135 140

Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe
 145 150 155 160

Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys
 165 170 175

Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala
 180 185 190

Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg
 195 200 205

Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu
 210 215 220

Arg Tyr Gln Asn Leu
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<210> 2
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 <212> DNA

<213> Moloney murine leukemia virus

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120

cttaccacag atttatgtat gttagccac catggaccat cttattgggg gctagaatat
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caatccccctt tttcttctcc cccggggccc ccttggtgct cagggggcag cagcccaggc
240

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aacagactca agctagacca gacaactcat aaatcaaag aggatattta tgtttgcccc
360

gggccccacc gccccgaga atccaagtca tgtgggggtc cagactcctt ctactgtgcc
420

tattggggct gtgagacaac cggtagagct tactggaagc cctcctcatc atgggatttc
480

atcacagtaa acaacaatct cacctctgac caggctgtcc aggtatgcaa agataataag
540

tggtgcaacc ccttagttat tcggtttaca gacgccggga gacgggttac ttcttgacc
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<212> PRT

<213> Artificial Sequence

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<223> collagen-binding domain of von Willebrand Factor

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<221> BINDING

<222> (1)..(10)

<223>

<400> 3

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